ABSTRACT

A multimode-multiband terminal includes an RF antenna for transceiving a CDMA-2000 signal and/or a WCDMA signal; an RF transceiver for demodulating a WCDMA pilot signal received from the RF antenna and outputting the demodulated WCDMA pilot signal; a pilot signal measurement unit for measuring an intensity of the demodulated WCDMA pilot signal to generate an Ec/Io; a WCDMA modem and a CDMA-2000 modem for performing a call processing according to protocols defined by a WCDMA standard and a CDMA-2000 standard, respectively; a flash memory for storing therein a modem-to-modem switching program capable of performing a switching between the WCDMA modem and the CDMA-2000 modem based on the Ec/Io; and a controller for loading the modem-to-modem switching program and activating the CDMA-2000 modem if a time lapse during which the Ec/Io is maintained smaller than a predetermined CDMA-2000 ON threshold TH_{ON} is greater than a preset CDMA-2000 ON condition time H_d. A modem-to-modem switching time between the WCDMA modem and the CDMA-2000 modem in the MM-MB terminal can be greatly reduced.